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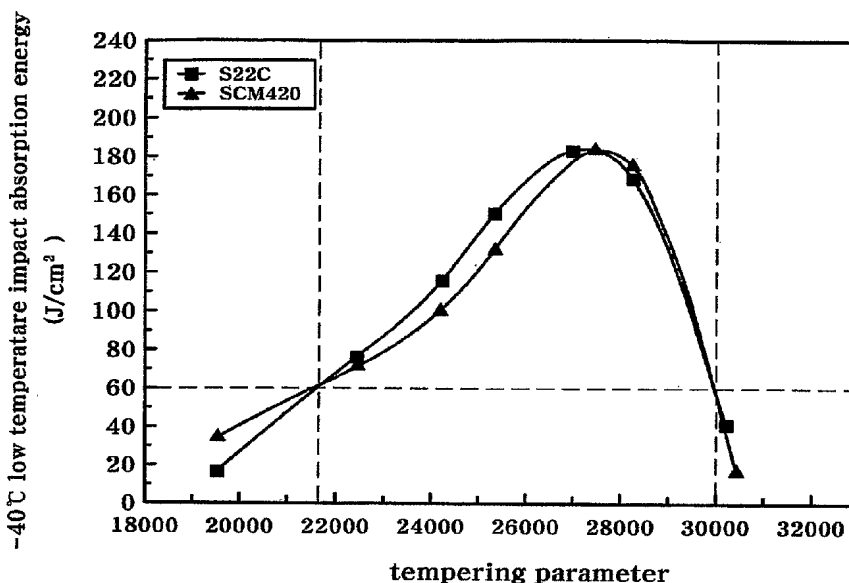
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[Continued on next page]

(54) Title: STEEL WIRE FOR COLD FORGING HAVING EXCELLENT LOW TEMPERATURE IMPACT PROPERTIES AND METHOD OF PRODUCING SAME



(57) Abstract: Disclosed is a steel wire for cold forging, which has excellent low temperature impact properties, and a method of producing the same. The steel wire consists of 0.10 - 0.40 wt% C, 1.0 wt % or less of Si, 0.30 - 2.0 wt% Mn, 0.03 wt% or less of P, 0.03 wt% or less of S, and the balance of Fe and impurities. The steel wire has an austenite grain size of 5 - 20  $\mu\text{m}$ , impact absorption energy of 60 J/cm<sup>2</sup> or more at -40°C, and tensile strength of 70 - 130 kgf/mm<sup>2</sup>. A steel material for cold forming according to the present invention has impact toughness that is greatly superior to a conventional spheroidized material or non-heat treated steel at a low temperature of -40°C.

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